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**[ABSTRACT]**

A positive working printing plate precursor is disclosed which comprises a hydrophilic support and a coating provided thereon which  
5 comprises in the order given a first layer containing an oleophilic resin soluble in an aqueous alkaline developer and a second layer comprising a water repellent-compound. Furthermore, the coating comprises an infrared absorbing dye containing a perfluoroalkyl group providing a printing plate precursor with high sensitivity.